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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/449,021	11/24/99	EMMELMANN	H 373-02

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DERGOSITS & NOAH LLP
ATTN RICHARD A NEBB
FOUR EMBARCADERO CENTER
SUITE 1150
SAN FRANCISCO CA 94111

EXAMINER
KENDALL, C

ART UNIT	PAPER NUMBER
2122	

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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

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	Application No.	Applicant(s)
Office Action Summary	09/449,021	EMMELMANN, HELMUT
	Examiner	Art Unit
	Chuck O Kendall	2122

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Peri d f r Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *24 November 1999* .

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disp sition of Claims

4)☐ Claim(s) _____ is/are pending in the application.

     4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-40* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11)☐ The proposed drawing correction filed on _____ is: a)☐ approved b)☐ disapproved by the Examiner.

     If approved, corrected drawings are required in reply to this Office action.

12)☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

     a)☐ All b)☐ Some * c)☐ None of:

       1.☐ Certified copies of the priority documents have been received.

       2.☐ Certified copies of the priority documents have been received in Application No. _____ .

       3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

     * See the attached detailed Office action for a list of the certified copies not received.

14)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

     a) ☐ The translation of the foreign language provisional application has been received.

15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .

4) ☐ Interview Summary (PTO-413) Paper No(s). _____ .

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: .

DETAILED ACTION

1. This action is in response to the application filed 11/24/99

    Claims 1-40 have been examined.

2.

Information Disclosure Statement

The IDS submitted March 06, 2000 has been considered.

3.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a
printed publication in this or a foreign country, before the invention thereof by the applicant for a
patent.

Claims 1-40 are rejected under 35 U.S.C. 102(a) as being anticipated by Massena et al.

USPN 6,035,119 hereinafter Massena.

Claim 1.

Massena interprets a software development system for applications that run on a data

network which couples a server computer and a client computer, wherein the client computer

runs a browser program, comprising a page generator capable of generating functional

application pages with additional editing features for interpretation by the browser program;

[Massena, fig 1.also see *abstract*].

an editor capable of directly operating on the pages displayed by the browser thereby

allowing the user to work on a functional application during development.

[Massena, fig 1.also see *abstract*].

Claim 2.

A software development system as claimed in claim 1, further comprising a plurality of

components, and wherein developed applications comprise at least one page template capable of

containing components, and wherein the editor provides features to insert, modify and delete

components on page templates.

[Massena 5:27-29, *see* repeatable web page, which is interpreted as a template, *also see* 5: 55-65,

templates with modification features, are also inherent features, in Symantec and other Web or

Html editors as disclosed by prior art 3: 15 –20]

Claim 3.

A software development system as claimed in claim 2, wherein at least one of the

components reacts interactively on user input by executing instructions on the server.

[Massena 3: 30-37 & 5: 1-11].

Claim 4

A software development system as in claim 3, wherein at least one of the components

contains at least one other component. [Massena 5: 25-35, *see component object*s].

Claim 5.

A software development system as in claim 3, wherein the set of components displayed

on pages generated from a single page template can vary for different requests of the same page

template. [Massena 5: 35-37].

Claim 6.

Massena anticipates, a software development system for use in a data network which

couples a server computer to a client computer, wherein the client computer includes a first

software program for generating a request for one- or more pages from the server computer and

for displaying pages, and wherein the server computer includes a second software program for

receiving and processing the request from the client computer, for generating and storing pages, and for transmitting pages to the client computer in response to requests, the server computer further comprising:(abstract)

a data store; [Massena 8: line 7(registration, Database), 9: 55-60, *also see persistence* [et seq].

a plurality of components residing in the data store, including interactive components organized into component classes; [Massena 8: 1-10].

a plurality of page templates residing in the data store, at least one page template having at least one selected component incorporated therein; and[Massena 5: 25-30,*see* repeatable web page contents and component objects]

a server processor controlled by a third software program, said program providing instructions for selecting a page template based on the request from the client computer and instructions for generating a page from the page template for transmission to the client computer.[see Massena 3: 15-20 for software program and fig1].

Claim 7.

The development system of claim 6, further comprising a component editor controlled by a fourth software program, said program providing instructions for interactively editing selected components on a page template.[see Massena 3: 1-15 for COM components, activeX and Active Server Pages]

Claim 8.

The development system of claim 6, wherein a component is nested within a component.[Massena 5:25-30].

Claim 9.

A method for generating documents for display by a browser using interactive components, comprising:

assigning a unique identifier to at least one of the interactive components; and [Massena 7: 60-67 – 8: 1-10]

embedding the unique identifier into a generated page. [Massena 7: 60-67 – 8: 1-10, interpreted as design time control feature, which builds pages]

Claim 10.

The method of claim 9, further comprising storing data on a server for at least one of the interactive components.

[Massena 11: 58-60,storing data would be inherent in a server which hosts web pages for clients, however also see persistence et seq.]

Claim 11.

The method of claim 10, further comprising:

analyzing a request. sent by the browser for unique identifiers; and [Massena 7: 60-67 – 8: 1-10] see Query Persistence Interface

calling a function for the interactive components referenced by at least one of the unique identifiers contained in the request. [Massena 7: 60-67 – 8: 1-10]

Claim 12.

The method of claim 11, wherein at least one of the components is contained on a page template. [also refer back to, Massena 5: 25-37, for templates].

Claim 13.

The method of claim 11, wherein at least one of the components is called by a program.[Massena, 3:12-15]

Claim 14.

The method of claim 11, wherein at least one of the components is called by a another component. . [Massena 5: 25-35, *see component objects*].

Claim 15.

The method of claim 11, wherein the data is stored into an object of an object oriented programming language and wherein the function is a method of the object.

[Massena 3: 45-50]

Claim 16.

A method for implementing client server applications, comprising:

storing data objects on a server and assigning a unique identifier to each data object;

[Massena 8: line 7(registration, Database), 9: 55-60, *also see persistence* [et seq].

dynamically generating a document with the unique identifier embedded in the document; and [Massena 5: 18-20,and Massena 7: 60-67 – 8: 1-10]

analyzing requests for unique identifiers and calling at least one function for a data object associated with one of the unique identifiers found in the request. [Massena 7: 60-67 – 8: 1-10] see Query Persistence Interface

Claim 17.

The method of claim 16, wherein the unique identifier is embedded inside a uniform resource locator contained in a tag of the document.
[Massena 7: 36-45,Uniform resource locator contained in tags, are inherent in HTML]
Claim 18.

The method of claim 16, wherein the unique identifier is embedded in scripts contained in the document.
[Massena 7: 36-45]
Claim 19.

The method of claim 16, wherein the unique identifier is unique within a single session.
[Massena 7: 60-67 – 8: 1-10,see special component category]
Claim 20.

The method of claim 16, wherein the unique identifier is unique within all pages generated by a single server within a defined time period.
Claim 21.

The method of claim 16, wherein the data objects are created by an object-oriented programming language and said function is a method of one of these objects. [Massena 3: 45-50]
Claim 22.

A server computer running an application on a data network to develop and maintain applications using a web browser, comprising:

an editor operable within the web browser for inserting, deleting, and modifying components on document templates; and [Massena, see figure 1,and abstract].

a page generator for processing document templates and for generating documents from the document templates that are understandable by the web browser.[Massena, see abstract and 3:30-35,11: 60-65].

Claim 23.

A server computer as in claim 22, wherein the editor operates functional applications in an edit mode permitting editing directly in the web browser.

[Massena 7: 30-35].

Claim 24.

A server computer as in claim 23 wherein at least one of the components can react on user responses by executing some instructions on the server. [see fig1,see abstract, also 5: 7-10]

Claim 25.

A server computer as in claim 24, wherein the server computer further comprises a store of component classes, each component class implementing one component kind; and

a parser able to detect components marked on page templates; [Massena 11: 50-52].

wherein the editor is capable of showing a menu of components for insertion into the page templates.[Massena 5: 50-55, see property browser].

Claim 26.

A system to modify documents on a server in a data network which couples said server computer to a client computer, the server computer comprising:

a document store.

[Massena 8: line 7(registration, Database), 9: 55-60, *also see persistence* [et seq].

a first software program including instructions for transforming a first document retrieved from the document store into a second document having features which permit editing of the first document such that at least a part of the second document appears and functions similar to the first document; and [see abstract for edit using OLE]

a second software program including instructions to receive information from the client computer and instructions to modify documents stored in the document store.

[See fig 1. for Requests from Web server(130) to Clients browser(140), and also Massena 5: 25-55, see for authoring reusable code, also see bottom paragraph for Active X control abilities including, persistence and direct manipulation of code by editors.].

Claim 27.

The system of claim 26, wherein the second document includes at least one component and at least one handle to indicate the position of the component to the user. [Massena 5: 64-67, see property sheets as interpreted from prior art]

Claim 28.

The system of claim 27, wherein the second document includes handles and choosing one of the handles selects an editing operation. [Massena 5: 60-65].
Claim 29.

The system of claim 28, wherein at least one handle indicates the position of at least one component contained in the first document and said editing operation is chosen from the group of modifying the component, deleting the component, displaying information regarding the component, and inserting a new component.
[Massena 5: 60-65, for modifying, also adding/inserting, and deleting/eliminate code as discussed in *Abstract*, for Display see 5: 48-49].
Claim 30.

The system of claim 26, wherein the features are scripts.
Claim 31.

The system of claim 26, wherein the scripts are generated specifically for the second document and encapsulate information which is incorporated into the first document.
[Massena, abstract]
Claim 32.

The system as in claim 26, wherein the features incorporate information regarding the first document into the second document.[Massena 5: 7-20]
Claim 33.

A system as in claim 32, wherein the information incorporated into the first document is used on the client computer in order to send change requests for the second document to the server.[see Massena 3: 15-20 for software program and fig1].
Claim 34.

A method for generating a page from a page template containing components comprising:

for each component, identifying a component class of the associated component; and
[Massena 8: 1-10].

creating or reusing ,an object of the component class. [Massena 5: 25-30].

Claim 35.

The method of claim 34, further comprising calling a method of said component class to generate browser code;

said method being the constructor.

[Massena 5: 58-62,see intialize and instiantiate, for constructor]

Claim 36.

The method of claim 34, further comprising, for all components having a name attribute, looking up the component object in session memory based on said name attribute. [Massena 7: 60-67 – 8: 1-10], interpreted as ID.

Claim 37.

The method of claim 34, further comprising, for all interactive components:

generating a unique identifier; [Massena 7: 60-67 – 8: 1-10],

assigning said unique identifier to said object, and embedding said unique identifier into the browser code. [Massena 7: 60-67 – 8: 1-10]

Claim 38.

The method of claim 37, further comprising:

inserting objects for the interactive components into a list of listening components; [Massena 5: 25-35, *see component objects*].

working through all objects stored in the list of listening components whose bid occurs inside a name in the form data set; [claim 8].

and calling a method of at least one of these objects. [Massena 3: 45-50]

Claim 39.

The method of claim 34, wherein the page template is parsed into a list of nodes, including text and component nodes, said method further comprising:

determining if the current node is text or a component; [Massena 9: 30-65]

if component, then calling a method for the component, comprising:

[Massena 10: 15-30].

evaluating the attributes of the component if necessary; [Massena 7: 60-67 – 8: 1-10 see Query Persistence Interface].

identifying the component class associated with the component; and

[Massena 7: 60-67 – 8: 1-10],

calling the constructor method of the component class, said constructor method generating browser code; [Massena 7: 60-67 – 8: 1-10], and see Massena 5: 58-62,see intialize and instiantiate, for constructor]

if text, then generating the text; [Massena Claim 8]

and repeating these steps for each node.

[Massena 5: 25-30,see repeatable web page contents].

Claim 40.

The method of claim 39, wherein at least one component contains nested components and .[Massena 5:25-30].

the method of claim 39 is recursively performed for all nodes nested inside the component.[Massena 5:25-30].

Correspondence Information

Any inquires concerning this communication or earlier communications from the examiner should be directed to *Chuck O. Kendall* who may be reached
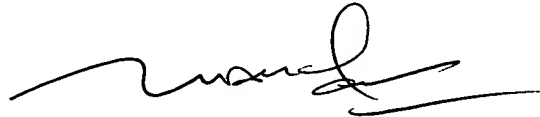
via telephone at (703) 308-6608. The examiner can normally be reached
Monday through Friday between 8:00 A.M. and 5:00 P.M. est.

      If attempts to reach the examiner by telephone are unsuccessful, the
examiner's supervisor, *Mark R. Powell*, may be reached at *(703) 305-9703.*

      Any inquiry of a general nature or relating to the status of this application
or proceeding should be directed to the Group receptionist whose telephone
number is *(703) 305-3900.*

Chuck O. Kendall

Software Engineer Patent Examiner
United States Department of Commerce

TUAN Q. DAM
PRIMARY EXAMINER